

10 501038

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
17 July 2003 (17.07.2003)

PCT

(10) International Publication Number  
**WO 03/058373 A3**

(51) International Patent Classification<sup>7</sup>: **G06F 3/033**

(21) International Application Number: PCT/KR03/00019

(22) International Filing Date: 7 January 2003 (07.01.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
10-2002-0001837 11 January 2002 (11.01.2002) KR  
10-2002-0032011 7 June 2002 (07.06.2002) KR

(71) Applicant and

(72) Inventor: **PARK, Cheol-Woo** [KR/KR]; 435 Indongli Kwangyangup Kwangyangsi, 545-806 Jeollanamdo (KR).

(74) Agent: **KIM, Eun-Gu**; Pedison International Patent And Law Office, 824-28(3f) Yoksam-dong Kangnam-gu, 135-080 Seoul (KR).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

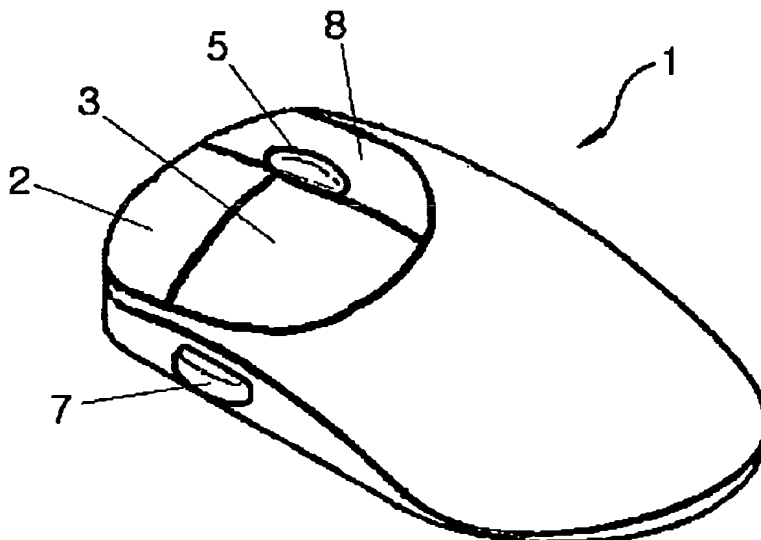
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

(88) Date of publication of the international search report:  
13 November 2003

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: INPUT DEVICE FOR COMPUTER SYSTEM



(57) Abstract: Disclosed herein is an input device for a computer system. The input system having a mouse with a plurality of pointers and a keyboard includes one or more activation selecting portions, a generation selecting portion, a position detecting portion and a driver. The activation selecting portions activate at least one of the pointers of the mouse. The generation selecting portion select the generation of at least one pointer. The position detecting portion is mounted on a side of the mouse to detect movement of the mouse. The driver activates and generates the pointer in response to the selection of the activation selecting portions and the generation selecting portion, respectively, and controls the movement of the pointer in response to detection results output from the position detecting portion.



WO 03/058373 A3

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 03/00019

## CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: G06F 3/033

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Wpi, Epodoc, Paj

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| X        | JP 11 095930 A (Sharp) 9 April 1999 (09.04.99)<br><i>abstract; fig.</i>            | 1                     |
| A        | EP 0281054 A (IBM) 12 January 1993 (12.01.93)<br><i>claim 1.</i>                   | 1                     |
| A        | US 5418548 A (Fuji) 23 May 1995 (23.05.95)<br><i>abstract; fig. 2.</i>             | 1                     |
| A        | US 5179656 A (IBM) 12 January 1993 (12.01.93)<br><i>claim 1; fig. 2,3.</i>         | 1                     |

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

„A“ document defining the general state of the art which is not considered to be of particular relevance

„E“ earlier application or patent but published on or after the international filing date

„L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

„O“ document referring to an oral disclosure, use, exhibition or other means

„P“ document published prior to the international filing date but later than the priority date claimed

„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

„X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

„Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

„&amp;“ document member of the same patent family

Date of the actual completion of the international search

15 April 2003 (15.04.2003)

Date of mailing of the international search report

30 June 2003 (30.06.2003)

Name and mailing address of the ISA/AT

Austrian Patent Office

Dresdner Straße 87, A-1200 Vienna

Facsimile No. 1/53424/535

Authorized officer

MIHATSEK R.

Telephone No. 1/53424/329

Form PCT/ISA/210 (second sheet) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR 03/00019

| Patent document cited<br>in search report |    |          | Publication<br>date | Patent family<br>member(s) |      |          | Publication<br>date |
|---|----|----------|---------------------|----------------------------|------|----------|---------------------|
| EP  | A2 | 281054   | 07-09-1988          | BR                         | A    | 8800901  | 11-10-1988          |
| EP  | A3 | 281054   | 25-10-1989          | DE                         | C0   | 3881079  | 24-06-1993          |
| EP  | B1 | 281054   | 19-05-1993          | DE                         | T2   | 3881079  | 02-12-1993          |
|   |    |          |                     | JP                         | A2   | 63217393 | 09-09-1988          |
|   |    |          |                     | JP                         | B4   | 6007308  | 26-01-1994          |
|   |    |          |                     | US                         | A    | 5179656  | 12-01-1993          |
| JP  | A2 | 11095930 | 09-04-1999          |                            | none |          |                     |
| US  | A  | 5179656  | 12-01-1993          | BR                         | A    | 8800901  | 11-10-1988          |
|   |    |          |                     | DE                         | C0   | 3881079  | 24-06-1993          |
|   |    |          |                     | DE                         | T2   | 3881079  | 02-12-1993          |
|   |    |          |                     | EP                         | A2   | 281054   | 07-09-1988          |
|   |    |          |                     | EP                         | A3   | 281054   | 25-10-1989          |
|   |    |          |                     | EP                         | B1   | 281054   | 19-05-1993          |
|   |    |          |                     | JP                         | A2   | 63217393 | 09-09-1988          |
|   |    |          |                     | JP                         | B4   | 6007308  | 26-01-1994          |
| US  | A  | 5418548  | 23-05-1995          | JP                         | A2   | 5127640  | 25-05-1993          |
|   |    |          |                     | JP                         | B2   | 2892877  | 17-05-1999          |